

.

**Research and project circular assessment  
visited city power,**

**Student St Peace college company education**

**Career outcome**

**Portfolio evidence low practice assessment  
engineer electrical, ca**

**Student name tshingombe:**

1. **Scope: research implementation framework study trade theory practice engineering study time** table assessment allocation implementation framework regulatory in government. City power and Eskom training center development infrastructure support training train training experimental student case study. Time table allocation research integrity subject outcome more. Department education dhet DBE and council trade assessment integrate

1.2. Abstract: knowledge student case study engineering design analysis investigation field: tendered time table trade ask factor in company overview in city power ,research experimental trade theory research training knowledge city power municipality: job Gauteng city approved I in power electric metering house home basic,

Join venture government development Eskom commission entrepreneurs. Labor health inspector electric compliance merest manufacture. Saps electric engineering supply.sandf mil development system defense environment STD physical company security close tendered required safety security electric factor

1.3 purpose: overview in developing company tendered city power supply: Engineering electrical case study

1.4. Requirements,

Engineering electrical training time table integrity subject outcome theory license trade .license practice trade .anted test ride panel warming and learning level electric principal license. Development subject written assessment circular time table self assessment peer assessment class work written projection case study anted module week student

1.5. Task.

Ask answers: theory practice visited plant operations experimental assessor in workplace labor.

Questions asked analyze overview on subject working in developing training company, answers responsibility sector appropriate sole Consol working Attendance was the factory trade theory regularity and irregularity in sector find material design in classes and sector find means industrial company relate manufacture majority and minority in power plant that means to Create a system to support the training. And support to attendance learner in power city more job opportunities.

1.6. Task

Ask questions power to integrate sector training was satisfactory in CVS to gate information for training

Power city metering customer need to trade customer technology outcome  
technology module trade theory education technology trade theory power  
education circular customer instruction metering customer service energy sale  
buyer energies electrique

#### 1.7. Step.

Need to cost customer power factor theory company customer supply need tax  
value trade theory consumer supply appliance electrique metering cost maximum  
demand trade theory rate :

Technology invoice customer service energy to make system projection  
engineering trade theory implementation in demand factor in power city trade  
supply customer power factor to working training. Question answers overview.

Cost home house city appliance electrique rate . Geyser metering training tree  
phase, single phase metering asking to be implemented time table allocation trade  
theory

#### 1.8 Operational support rendered

**Government labor.**

**Government industrial.**

**To compliance Labor: electrique power factor test inspection compliance.**

**Time table allocation**

**Relation education labor technology**

**Test installation Electrique metering single phase .three-phase test  
trade certificate coca. Checking inspection safety health**

**Machinery occupation health test**

**Design inspection**

Tender: supplies saps development load company manufacture in city power  
Saps student

Time: information management system, performance system development  
Tom engineering

#### **2.1.4 operational preliminary case study visited power city**

**Operational required:**

Permit working tendered temporaries permit and license study council permit  
government homes affairs study permit foreign citizens plants permit, and RSA  
permit I'd and exam

Exam permit period passport visa tourism transport logistics student

Meeting

2.1.4.1. Permit allowed minimum job career student permit security in BTs  
training allocation minim job

Social work classification job government to allowed case study student trade  
exam to be experimental in the plant city power Eskom and government institutes  
labor department

Visa code trade booking exam I'd time table days and time 4subject

Permit legislation framework regulatory mandatory to more experience pass port  
visa student I'd asylum to to work and studies tourism in the plant

2.1.4.2. Questions factory ask/anew student was not allowed to trade in the plant and to be training in the plant for dangerous .labor insurance compensation and development social student have for more information was poor in the sector theory to gate more information and to overcome power city member employment to work exam practice together in national planning plant was no coming successful for students to allowed. student must drop CV in entrepreneurs and city power to be employ for training and gate information not for work outside but in the plant system no to work in time table allocation technology outcome student to work powerful in academic workshop

Student to research and work power city information metering geyser in the academic research time table academic time table electrical .and student Can gate qualifications. Security reception more policy power city framework did allowed customer services to delivery more information only training center power city was allowed training.

2.1.4.3. Ask / answers. Factor permit

Pass port time table careers. Factor physical security Eskom close tendered required company security must be completed student security sassed accreditation school. And student set a number request for allowing

Student engineering assessment council engineering and trade council visa I'd permit student for trade exam.

Was Questions more with visa internal city power Eskom

Day visit rendered was not defined to student to working in government city power Eskom, search research system integration student circular assessment to work and find minimum granted for examination labor.

2.1.4.4 .CVS student city power and training trainer to delivery bill information system. Integrate job government student was alone by self explanatory no company tendered work partners with city power Eskom on visiting site student was not in site was dangerous place for health student working in higher voltage and irregularity students in the system . System need to trainer training appropriate job and faculty appropriate school power city in school development plant power city metering student in meeting plant, school collie Eskom commission. Department trade industries Industries Company in trade company examination engineering, engineering labor school in engineering

Electricque in commission class school generate

1.4.6 .student college assessment workshop workplace class work. Homework research engineering project process in field faculty research department research.

Ask/

2.1.4.6.1 Faculty allowed system engineering lab engineering.lab workshop engineering studies and library academic studies center assessment engineering. Permit engineering allowed engineering time table work engineering 4subject statement engineering case studies for projection cost trademarks was outcome technology.

Misconceptions faculty retention subject psychometric vocational career guidelines study engineering projects trade plant engineering analyze design investigation system .generation electrical magnetism generation transmission system anted CCTV , study material, building student experimental plant city power how plant was working

Tendered close time table n1, 2, 3,4,5,6 NQF /level subject in system continue basic advanced filing engineering fundamental system

. Circular system study must undergoing investigation principle low power.  
.consumer power factor trade correction power module student more and company operational required  
Gov manufacture relate sassed seta merest accreditation company trade to supply trade test making trading component equipment to sharp fit to step operate chisel mark . Engineering trade in the plants  
Design system

2.1.4.6.2..government system national fund financial implications in system exam to more go sector .  
.go development social worker union fund to student go visited.

Closed sector required minimum score  
Inventory

12..4.6.3. Metering module trade theory electrique. Electrotech.electrotechnology resembles instrument measures. Information management system. Framework communication skill, mathematique engineering science outcome engineering electric .factor  
Instrument ampermeter voltmeter wattmeter cos.analogy.digital metering.  
Transco metering low voltage .high voltage.  
City power Eskom authentic district municipality job customer house building substation. Generation transmission. Transformation cabling sector basic home electric metering power geyser cost  
Month consumer kWh indicator meter and coat price inventory  
Customer registration number existing installation and customer metering number custom power meter square consumer planning wiring design custom:  
Registered customer training sale air time and metering installation single phase and tree phase installation industrial installation. Customer  
Municipality lighting road ways street municipality designing civil engineering power lighting switch ways system.

Trade light to implement bulb trading data system.

2.1.4.6.5. Metering implementation time table experimental generation transmission level and panel skill experimental in the system house home development to the plant training city power Eskom. Practice electrique engineering research academic switch ways design db box outlets socket award qualifications time table investigation switch ways circuit breaker motor investigation analyze design power factor to be re implantation in company city power Eskom commission entrepreneurs go implement to be working in system.  
Policy system academic sibs sans trade theory licensed  
System information analysis engineering fundamental system process...  
Communication system engineering electrical license term trade to be implemented in city power was installed

3.1.4 operational preliminary case study visited power city  
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Instrument ammpmeter voltmeter wattmeter cos.analogy.digital metering.

Transco metering low voltage .high voltage.

City power Eskom authentic district municipality job customer house building substation. Generation transmission. Transformation cabling sector basic home electric metering power geyser cost

Month consumer kWh indicator meter and coat price inventory

Customer registration number existing installation and customer metering number custom power meter square consumer planning wiring design custom:

Registered customer training sale air time and metering installation single phase and tree phase installation industrial installation. Customer

Municipality lighting road ways street municipality designing civil engineering power lighting switch ways system.

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Policy system academic sibs sans trade theory licensed  
System information analysis engineering fundamental system process...  
Communication system engineering electrical license term trade to be  
implemented in city power was installed.

Engineering electrical evidence collection guidelines recommend police and army  
police military... digital electronics item may have.computer .mobile devise  
laptop.record ammunition.place cushioning material comparison analysis prevent  
damage record manufacture serial number model found fire arm weapon .  
Examination item information. Personal contact.modeor disconnected from  
network Faraday bag main tenant power to devices d consultant digital forensics  
examination package items in butcher. Do not tape item. Exploitation  
mitigation.xollect USB device.dvd.xd gasman DNA examination.seaech cybercrime  
offender computer networking chat room phone explosion technology in order  
hack criminal's crime targeting computer intellectual property...  
Police support to army operationel.principleoperation police rules low operationel  
environment.. Planning preparatory and assessing police operational planning  
execution assessor.base man power mission police station detention cell operation  
enforcement compliance legal...strategies.policing. Laboratory support. Low  
enforcement patrol main power... function justice system...tools mark...  
enforcement low safety security engineering electrical safety management  
systems.patrolmainten working build management  
Implications...  
Tom police security city power and College training system.

Professional engineer electronics or electrical engineering... financial  
program.information use to generate information on pretermine object indicator.  
Description and information...visible policing crime investigation.specialised  
investigation.intelligencr information management protection VIP government  
security regulatority.static security.physical security system tiditechnical indicator  
technology...persal registra system police investigation director.manual  
system.objective statement indicating.infrasture development structure plan  
respect work report is base saps project..  
Project poling facility management to maintain. Control system. community service  
reporting cycle quarterly and responsibility crime investigation implementation  
responsibility office .the non proliferation of weapon mass destruction act 1993act  
no87 of 1993..police interviews scenario.... engineering electrical city power  
electrique metering scenario vs. appliance electrique metering time table low  
enforcement appliance fire arm appliance customer CCTV radio security customer  
security it PC cyber customer appliance TV radio bomb missing circuit network vs.  
city power trade challenge assessment police engineering electrical time table  
trade theory engineering low non according manufacture and related,

On Wed, 29 Mar 2023, 15:09 TSHINGOMBEKB TSHITADI,  
<[tshingombekb@gmail.com](mailto:tshingombekb@gmail.com)> wrote:

Engineering modules equation algebraic linearity exponential ax by...a square  
+bbsquare network.... engineering planing components.researchh advanced field

generation ,skill explain, development skill components,science natural  
mathematique,device protection components , discovery ...

Engineering investigation resolve of crime framework regulatory engineering  
crime incidence...step collating crime information legal , crime source information  
,identity crime describe crime analyse.crime zone no protection over loa.identify  
plan subject completed source and need design describ analyse feed back trade  
safety...

Engineering understand code conducteur.reason .learner. Discovery...

Point reasoning. Question. Operationel.skill total achievable processes. Add value  
learner assessment...apply skill solution resolve problem...

Questionnaire point of process or accuracy. Evidence...expected response evidence  
appropriate division correct trade Engineering correct multiply,evidence copper is  
correct each line trade theory ...DC current equivelent force emt.. Junction rules  
Kirchhoff rules potential rules RC circuit. Shock hazard, thermal hazard tree wire  
system...terminal voltage...

Key terms... instrument that's...

Key equation terminal of single voltage source  $v_{\text{terminal}} = \sum -I r$   
 $r_{\text{eq}} = R_1 + R_2 + R_3 + R_N$

Sum = junction rules  $\sum I_{\text{in}} = \sum I_{\text{out}}$ , loop rules, terminal voltage of voltage  
source in parallel  $v_{\text{terminal}} = r, -I \sum \text{courant}$ .

Time constant  $\tau = RC$ .

.direct current current during charging of capacitor,  $I = I_0 e^{-t/RC}$ ...

Charge on discharge capacitor  $q(t) = Q_0 e^{-t/\tau}$

Electromotive force, EMF work done per charge keep..the voltage output of a  
device is called  $v_{\text{terminal}}$  and  $v_{\text{terminal}} = \mathcal{E} - I r$ ...  $R_s = R_1 + R_2 + \dots$ , current  
resistance find low him

Resistance resistivity length found area resistance wire  
, copper across...

Electric power...

$P = v \cdot i$ ...  $p = v^2 / r$ .. battery to power supplies...

Cost..cost = power rating in kWh x number of our it run x cost per kWh..

Home monthly cost appliance every day possible includ [dryer.microwave.tv](http://dryer.microwave.tv) back ..if  
does give power give the should. A current.any thing in the socket 220v ..socket is  
cheap on the power is how much.. electricity continued to increase efficiency to  
offset consumption.. energy saving are account up being cheaper...

4.2.DC courent direct current vs alternating current ac ..

Battery products DC current batteries voltage EMF is constant constant current  
circuit capacitor store charge current from socket...

If look voltage peak +170v decrease through 0 to -170 and rise value 170 really be  
110-120 that actually average but peak really is about 170..Oscillating voltage  
product electrique field..electron response to this oscillating field and oscillating  
back and forth producing an oscillator current in the circular..

Graph voltage as functions of time current this average value voltage from wall  
socket it know as the root mean square,or rms, average.voltage varies  
sinusoidal.positive as negative doing average.. $v_{\text{rms}} = 0,707 V_0$  and  $I_{\text{rms}} = 0,707 I_0$ ..  
Instant 0.606...serir parallel voltage supplied Series resistance  
equivelent.parallele...

Performance a mechanical inspection and reporting on motor transformation workshop... components main...connected...AC current..Phase diagram...ohmic resistance only  $v=r.i$ ... $i=\sin.w.t$  in phase R..AC  $i=v.\sin.w.t$ .. $v=i.\sin Wt$ ...current lags .. $W_L = 2\pi fL = X$  inductive reactance integrated...  
 Operator  $j$  with rotate a vector 90 degree in anticlockwise direction  $2j=1, j=1$ ...  
 power triangle.. $S=P+jQ$ .. $s=p+jQ$ ...apparent , $a=v.i \Rightarrow$ Power .. $Q=I^2 X$ .....  
 DC generation.. $V_T=E_a-I_a R_a$  voltage full load .. $i_a$  equal is ,, speed  
 $e=d\phi/dt = p/60 \cdot \phi / n = P_N/60 \cdot 2\phi$ ...2flux  $pN/120$ .. $f=p.n/60$  sinusoidal AC voltage of  
 factor induced EMF Conductor= $1.11 \times e = (1.11) \times (2\phi f) = 2.22$ ..emf par volt per  
 phase x no of turn 4.44 flux ..contactor ..

Instrument.

Magnetic equation deflection. $f=B.I.l.n$  deflection torque  $T_D = \text{force} \times \text{perpendicular distance}$ ... $a=l \times b$   $T_D = TC$  ...

Parallel movement must same..

$I_{sh} R_{sh} = I_m$  .. $I = I_m (1 + R_M/R_{sh})$ ...

$V = I_m (R_M + R_{se})$ ..  $v = V_M (1 + R_{se}/R_M)$ .....

$e = d\phi/dt$ .....

Power with meter consumption torque balancing energy in the circuit is directed registered..speed increase ..phase error occurred phase difference pressure error temperature.creping  $T_D = TC$  ..flux

$= [v.i \cos(\theta)] (DM/d\phi) = [k_M/d\phi] . P$ .. $k = k_R$ .. $p$  is power consumption.. $m$

mutual inductance.teta .instaneous current in pressure coil resistance

$v = \sqrt{2} . v . \sin.w.t$  insta voltage .. $I_P = \sqrt{2} . i . \sin w$ ...average deflection . average deflection...

On Wed, 29 Mar 2023, 07:23 TSHINGOMBEBK TSHITADI,

<[tshingombekb@gmail.com](mailto:tshingombekb@gmail.com)> wrote:

9.provide contextual information established : in city power and St peace college students engineering electrical research implementation trainings appliances electrical fault guyser stove light outlet socket current power factor demand factor metering customer trade . theory current power delivery to the customer and customer appliance requirements need to trade theory outcom system engineering electrical.true power real power factor regulation system information.metering control analogy digital system sale kWh .metering customer demand single phase tree phase industrial.domeatic .

Theory current state previously study trade theory to wiring db box mering client domestic appliances technology electrotechnolgy trade.

Certificate license test trade theory validation low real power factor

Reactance inductance impedance system metering challenge instrument controller metering reading cost 1@kwh,value1rand tax value certificate issue matter license code client metering indicator trade metering . investigation sale .

9.8 compared resultat obtained statement visited investigation metering St peace college time table learning cost grade cost value time .need to verify by the college St peace engineering work study engineering works place workshop trade cost appliance time credit accreditation value and city power real time delivery and sale cost building real time consumer schedule.....

10.Title report should indicate.

11.weak titles ,strong title appliance electrique engineering electrical  
Fundamental system .power ...

:

4.2.1.requirement appointment of plants engineering electrical counsutan  
provision professional services city power and St peace college Nated statement  
engineering electrical theory city municipal provincial infrastructure visit  
development projects case study topic Portofolio evidence.

4.1.2 sub sector manufacture maintenat St peace college engineering learner  
assessment outcome transmitted generation power station metering electricity  
electromagnetic career outcome to visit join venture city power government.

4.1.2.1 special IST mark application

\_ discipline mark application

\_roads and traffic engineering, road and storm water pavement evaluation, road  
transportation and traffic impact access studies St Peace college .relation circular  
assessment traffic map design,

\_parking and access studies traffic management.traffuc police. Enforcement

low .study material in assessor assignment engineering, tpm,

Maintenance police technical support material advisor circular assessment  
guidelines study investigated principal.Nd information management system  
framework regulatory government Gazette act material design investigation city  
power with happened and methods research city power traffic registrar research  
engineer low traffic prevention low.

\_structure and building cause ways, Culver's bridge community. Stability  
equivalent equipment policy maintenance design meetings breakdown in the plant  
system

\_electrical: rural electrification substations, network protection and control design.  
Energy efficiency demand assessment development operational maintenance and  
tom repaired road traffic engine structure and building criterion plan

-demonstrate

-relevant experience key personnel

- Bidder experimental skill methodology

-total point

-criterion professional liability insurance R3m for each and every insurance  
methods research qualifications and roles of each staff

2. Implementation framework regulatory legislation mandatory engineering  
electrical case study circular time table in visited work components innovation CVS  
city power

Implementation close submitted of course daily tenders note assessment peer and  
self class assessment discussed note provide services trade skill report

phase1,2,3,4,5,6 registered trade test reading experimental close Portfolio  
evidence documents week lee attendance release resultant statement

5.-2.1module : induction safety hand tools Conductor recall carry section join  
crimping soldering prepared fault find control contactor ..

Adhered to correct instrument is used fault find the control panel... distribution  
fuse AC heavy current motor control open circuit.short under voltage retain fault  
single fault application start motor db system .fluorecence installation switch .

Following controller main circuit phase squirrel cage induction motor can. Director line ward automatic start delta autotransformer constant torque phase rotation...generator AC machine transmission... commission capacitor starter phase slips according.

5.2.2. Code: recall application section of the training act 56, 1981, Gazette questionnaire exam conductor method

Crimping joiner electrical mechanical.

No dry joint a damage allocation. Specification insulator testing instruments cables make off core PVC armored MMM core high voltage gland ferrules and used to accord joint rating termination...sabs 0142 identify xpl cable 100%,test gears circuit machine protection.

5.2.3 objectivity: relevant color marking and correct use sibs 0140 hand tools identify checking forming character gas weld working piece trade correct according tender number

Chain block ton max shake ton sign work select voltmeter ammeter energy meter select safety

Identify electronics compone wire wound up to metal oxide capacitor ceramics diode transistor thyristor %100 correct Solder

2.4 criteria recall the operation of different type of battery identify various type correct maintain according. Manufacture electrical system f connection applicable auto electrical... fault find auto electrical all safety aspects adhered to. Correct according manufacture check and adjust correct procedure settings manufacture camber and...

Correct process adhered. Teat correct stable multivabrator use dual wave form DC AC average value peak frequency rms frequency all reading be programmed p.l.c

..6.1.3. Compagny requirements

Specifically theoretical pass requirements mathematic and trade theory subject employer college apprentice relevant subject n1,n,2,n,3,n4,n,5,n,6 n diplomat saga award n body quality insurance assessment. Trade test and council engineering. Applicable value point relate years experience , certificate trade ,5%cleare time frame project, plan training clear roles response, equipment workshop, including.restrsint

6.2. Engineering n diplomat duet career and engineering n diplomat saga qualifications criteria time table n1, n6 trade engineering subject career mentoring outcome subject engineering electrical electricity .college implementation n subject... mathematique,engineering science , engineering drawings.trDe theory electrical,electrotechnolgy,power machine, engineering physics, chemical engineering department.outcom industrial electronic trE test theory.logic control practice learner level infrastructure construction electrique..Outcome engineering electrical career generation, transmission electromGnetic level continue.isat integration practice engineering lab workshop experimental...time frame framework. Practice theory integrate assessment employment saga qualifications Engineering n electrical criteria instituts,sasseta.employment compagny trade gov career graduate internship close city power careers.eskom career training career graduate saqa. engineering n electrique field panel wiring electric . drawing electrique,control logic .cable join .fridge.substation .generation motor .work 24month qualifications.categogie career mining gov and labour examination expiremental, guide ..

.city power network metering and partnership Eskom generated transmission with appliance need. Consolidated for students have time table to visiting reading...security system information access studies or traffic police in building city power, regulation with student accreditation seta assessment police or circular to working database system entry visited in and outcom student visited day week . Attendance for reason study in trailing BT's city power card passport visa tourism negotiate career graduate student. Visited is individual self assessment student career. And class group school assessment coming for extra visited or large attendance...

Access control ticket for interview career asks or donate individual research things student knowledge individual...

.7.Labour health education for engineering in plant...labour mining examination student examination safety to prevention hazard or any dangerous incidence student labour give permission for engineering to visited plant. Coed if for insurance when is problem to health [machinery. In](#) compliance electric for trade labor national diploma they are covered by inspection labor

7 .14.1Mining qualifications categories may give permission to visiting categories foreman electricity mining industry. Hazard explosion fault discrimination detection exposition mining plant solutions permitted for trade mining they are covering visited .power mining coil copper etc

7. 14.1 Dti industrial trade gives that permission Department education and go department. Any proliferation for trade. Development infrastructure for student's .city power cable trade in appliances Coverage human resource city power can be claim to data labor department mining department for student visited extra time work over time on training city power space municipality...power explosion...government....steam mining geotechnical investigation earth discovery in natural they are covered insurance student visited places and personal trainer learner working visited electric engineering.. Technologies science innovation.

8. 19. Purpose design integration. City power. Study information on line career. Home customer, tender city power career.

19.1 applications for electrical services responsibility for providing electric service to property owners in the city power. Billing service division two categories namely small power uses sup and large power use plug electrical services connection no greater than 56kva in general type of connection.

-Apply to convert a sup form post paid to prepaid Billy

Apply for new prepared or postpaid dupe connection.

-apply for a new connection.

Region revenue...

9. 19.2.. feedback.guyser control, meter reading.schedul.tarrif info, prepaid vending, energy type, fault Loggins,load shedding, library, claim,tarrif info, tariff library , monthly meter ,meter reading,

19.3 meter estimated...

Company secretary m smith. Executive director,

.. Registration number 2000/3005vat numbers

Insurance claims form electrify account number, prepaid meter street,code,postal address, city power number, call centre , description of how the loss damage, occurred insurance repaired replacement quotation .

-leadership seniors management team, compagny.media.  
 -theory city invention metering city old metering power.daig business with city power,  
 Supplier vendor providing services,  
 - company awad.compagny registration, originally tax pine, relevant,I'd,direct,B-BBEE,tender.  
 10. -20.Hearing conservation programme.  
 Training awareness and induction programme attanded.noise exposed registered audiometry.during induction.  
 \_content ..loss, regulation city power  
 -trainong shall cover,  
 Content and scope training of the ihl regulariion records  
 .10.-21. request for quotation  
 Name date post, closing,tender, description, additional, business plan, quarterly report,AGM,red year report, annual financial statements, service level agreement, staring period, endings period.  
 22..Application for electrique supplies stand number, township, building name, street address type use, residential, commercial, industrial,  
 Customer account.customer meter tick  
 -New service connection.  
 New service connection, single 80A.tree phase 80A, prepaid convention.other...  
 - Convention single phase 80A, smart metering, repositioning of metering single 80A,  
 -up grade download of supplies existing am requesting.new meter box boundary existing cabling.  
 - city power agreement supply of electrique applied for is govment by low application liability according, routine monthly read, notification, connection, connection objectivity, registration,name domestic customer service connection not exceed 56kVA3phase ,80Am to supplies R1200, outcome. Customer log fault Measure the power of learning and criterion are registered trade mark of education testing services. prepare for criteria asservissemnt test exam skill. Discover practice full. Employment testing services are design engineering aptitude minute test design, criteria  
 Type, test measure trade mark holder. License electrician assessment, apprenticeship.license electrician theory and license practice. Wiring meter box sub and switch boor, men system, comment licensed, week basic licensed including readings comprehensive test numerical reasoning test  
 Trade apprenticeship.problem reasoning perspective  
 math.mechanical.electrical.physic.  
 Questionnaire company qualifications question theory electrique test power current.  
 24. Fault find and protective. Control circuit...  
 -Installer rules: PVC flexible conduit isolating switch correct factor Sep  
 Cable burette, depth cable, cable installer.

11. 22: metering error connecting prepaid, over load, no power accident on appliance power metering consumer procedure claim fraud crime metering  
 Logged call, off metering minutes,  
 City power and Eskom on line metering recharge prepaid:

Compared metering old analogue indicator kWh day daily check by service accountability kWh building account energy meter take 1day20kwh room house estimate  $\times 360 \text{ days} = 7200 \text{ kwh}$  years energy heater consumer indicator safety key lock metering analogies reading value 7200kwh, to rand cost Bill discount prepaid cash metering return back tax vat customer consumer building large medium tax redistributed 3200kwh real amount prepaid on metering digital. Customer's pays money 10rand have 3kwh to 5kwh, consumer readers

.. electric wiring factor building installation electric and appliance design supply need real time cycle for that discounts technology cable police respire main tenant old cabling equipment years 10yrars replace cable high voltage transformer to cleaner reactance synchronous machine on designing reader's kWh 7200kwh coverage policy main tenant check point kWh lighting was default fault appliance claim and fault old system design by networks system city power in interconnected news building and account nest number industrial news technology need to claim visited plant,,tpm engineering design AC DC current step task creation operational curent assessment

24. Purpose comparing estimate:

Designing and investigation: electrical power transmission network: protected and controlled high voltage circuit breaker inside electrical grid substation relays scheme can be complex.

-oil minimum circuit.

-overloading excessive, curent not due to faults,

-short circuit fault between phases, short circuit,

24.1 classifications

- Oil circuit breaker OCBS, vacuums circuit,

-SF6 circuit breakers

-air circuit breakers,

Oil tanks in oil circuit breakers or normally, oil is very good insulator has high dielectric electrique strength, cold oil is able to act as on insulator,

C... design

Good quality as below,

Good heat transfer Quantity

Short arcing time

Comportment

-high voltage used service, on circuit rating 600v, standard 4,160to 765,00v and 3 phase interrupting 50.000to50, 000,000kv,

Electronic symbol circuit breaker...

Transco MVA, found in substation 600MVA, 3, 6 35 kV industries,

-switch disconnection. Use control section switchgears panel...

\_Construction...bulk oilcinductor bushing, fixed contact, moving contact operating,

Vic vacuum circuit breaker.

Oil circuit breaker less risk,

SF6 current breaker very less,

- Mechanism operational, insulator, arc contact, frame lane contact, hand operator, electric solenoid, frame, Erie tropical,

SF6, high sulfured fluorite, is air interrupted...



12. 29. Conceptual problem conception assures efficiency conversion of solar, steamer thermal hydroelectric renewable energy electricity lower acceleration rest...

Integrated concept light draw power consumption. heatet calculi power dissipation operating bulb time costrb, cost appliance electric fusible.

-Rating fusible high voltage relays protection advance:

Z, impedance cable breaker tranfo, conductance fault detect

Generation resource .network transmission system

Time table engineering science .physic engineering chemical, electrical engineering. Mathematics engineering, apply to the career outcomes skill to make a agreement arrange power city training visited engineering estimate resource internal and compare additional system explain reasoning engineering in point 24. Mechanical designer process equipment, area removal. Physic engineering .area...A1 = reinforcement area jacket steam

Designing plant and economic chemical engineering and physic Engineering limited for corresponding limited years analogies computer.

Specifically internal energy u to system robe do/St rate kinematics rate input to system  $(U1 + g1 + 1/2v) dm1/dot...$

$(U2 + gz2 + 1/2.V saque).DM square/DT$

(rate of energy input)-(rate of energy out )=rate enegie chemical plant large quantities heat 150 degree Celsius ,1000kwh shaft delivery steam turbine power...

10 bar /400 degree Celsius..generator 1500v..

Diffuser,super heater ..

$dQ/dt - dw/DT = F square (H2 + g.z/g1 + 1/2.vsquare) - f(H1 + 9z/g + 1/2vv2.v1 square./g)$

Initial interest rate percentage n program computer print out following in job map ..voltage..

Emergency system energy .compare

Electrogene group motoring test compare fuel supply direct bore store

98,5/1040,,cubical capacity 3200cm square, compression ratio 17,oto1, valve gear d-0-ho valve. Engine output max power peak150 kW,118,power peak redli e

3800/440°,mac torque n.mm343, torque peak..test

Applied thermal engineering fuel tank

$Nth = hbh/htx100,,,swept volume.$

$Vs = \pi/4$

.Dsquare.L

100liter, pay load 756 .homologated,

Warranty and service 3years kWh ..kmh rpm engine power

3800r/m power/mass(w/kg)61

Power/litre kW/h38,torque litre NM/l

$(P.V/T)n.t = (P1.v1/T1)$  working .volume of .head...low conservation transfoy in system Audit overall applied calculate efficiency work.donr. $Ew = F.d.$

$P = E/t....Ek = 1/2.m.vsquare.Ep = \underline{m.gh}.. E e = v.i.t. Eh = C.m\Delta.t., efficiency \eta = energy out/Energies input....power output/power input..low$

13. 21. Engineering systems modelling Nd asservissemnt for engineering police in St peace college was covert by lecture note and syllabus reading

Introduction topics lecture note.and policy overview St peace college orientation guide and visited city power policy training circular note key learner apprenticeship work job career.

21.1 framework and tools : scientific assessment making model exhiy -framework science police . Engineering electrical innovation Portfolio evidence

Implementation in city power training complain claim police case study training recall resolve conflicts safety security in city power science analyze student case investigation.scenerio in city power .

-Framework precautions : student prevention safety trade machine circular time table training city power learner prevent precautions visited development work study conducted trade infrastructure

-Projection: precautions preparation frame study. Air polutioning science natural.

-Project checks point gate point assignment engineering electrical:

- Case studies: engineering electrical council engineering and trade council labor analyze in government city power framework regulatory legislation: mandatory legislation police power and mandatory engineering power constitution go Gazette power attorney to work empower development learner

-model

22. engineering electrical: specifications of machinery equipment. Motor machine generation battery need to made verification

load cycle., duration electrique,time ,duty, continue operational ,periodic cycle consisting cycle of a time of operationel,load and time of operational at no load there is not time energetizer and recycling and reacting in cycle duration factor,100tn+ v load cycle.

Duration time electric lost electrique breakdown, on period operation load time inertia factor breakdown=power receive methods effective load applied to the motor thermal relay contactor

\_policy maintenance engineering remanufactured tom cleaning meeting do check action take activities equipment breakdown re valuation. System products city power breakdown energy metering guises break down .student breakdown

exam weekend over load. Operation [excessively.net](http://excessively.net) operation .time net,

22. Engineering electrical planning organizing days shift task activities development system .day visited city power week.week.week.week. CVS

Step task check revision

Electrical [engineering.ac](http://engineering.ac) DC machine engineering. Motor generation machine conduct move DC generator operator satisfactory a motor fundamental speed equation in put output,

-parallel circuit distribution engineering reactance resistance impedance susceptance reactance total admission power factor circuit problem. In the find

-Tc parallel AC generator balance magnitude heat, phases system:  $P/\sqrt{3}.E.I \cos$  phase power transmitted two receiver two single phase ,transfo secondaire A.load circuit source,  $I_f/\sqrt{4}.l/c$  non oscillator transient.

AC ,time of the rms  $I/\sqrt{3}.I_m..$

Company Serie circuit power distribution total susceptance, admittance, theory Engineering,  $z_A, z_B, z_C, (a+jb), (c+jD), (f+jg)..$  engineering capacitor operator angle free.

Development Serie resistance impedance equation compare loop linears ,sum junction  $R_1+R_2+R_3+.....series 1/R_1+1/R_2+1/R_3+...parallel$

$z_1+Z_2+Z_3+...1/z_1+1/Z_2+,1/Z_3.../G_1+G_2G_3+..1/G_1+1/G_2+1/G_3..../gradient$  vectors

Developing  $R_a + R_B + R_c + \dots = R_{sh}$

$V(R_B + R_C) = v(R_a + R_m)$

$(R_B + R_C)(12 - I_m) = I_m(R_a + R_M)R(R_a + R_C)$

$= I_m(R_a + R_B + R_C + R) = I_m(R_{sh} + R_M)$

PMMC..is essentially a low level DC , parallel instrument.. $V_M = I_m.R$ ...

-Engineering transfor system.comparing power distribution assignment watt output average output current wave line secondary statement a(c). Delta, delta start. Start delta start star. Zigzag delta zigzag star anaphase...auto tranfor .courent voltage transfo high voltage. Equation load circulating switch transfo.balance load application of.postef

Electric technologies

14. 28. Compare training assessment and assignment engineering electrical to implement time table workplace workshop academic in trade social city power design factor training

15. 28.1 requirements: subject and module:

-supervision in industry

- Industrial orientation

-industrial organization trade theory electrical, electro technique

mechanitechnique language compulsories a, language business saga NVC level national...

\_anted :for subject engineering:

Anted care educate training facilitator, and learners port

Practically college academic: philosophies practical school guideline employment learner

-28.2 what are didactique strategic investigate [multidisciplinary. In](#) development goal construct training materials and evaluation, how the model is didactic expertise as aspects education didactic of instruction and facts authority and telling authority written.: implementation circular St peace college didactic material framework regulator tools assessment for learner and trainer system information, file material metering to material didactic city power and Eskom material training education support .method measure instrument of evaluation. Visited p999ortal career scope assignment goal value cable population city electrification attendance is available. For employment

29. Methodologie .more

-Orientation guidance school ,organization lessons ,compares organization supervisor industrial in St Peace collie regulation City power training:

-Lesson plan grade .and class engineering technical Grade 12to 9,, engineering nated classn1,n6,. Level 1,4 ,

Lesson plan technologie

-education technology matric and trade Engineering app video course ressours.

-projection orthographic.. orthopadagogic , orthographic isometric

Orthographic drawing,

-activity , subject area orthographic projection is a technique used spatial vision three dimensional object,can be convent,

-Lesson plan it association of training plan : projection city power light metering ,gysez planing and subject module required trade theory electrical module .wire premise power factor consumer plan.inatruction didactic form city power assignment:

-Orthopedagogy pedagogic

Module week:

Daily 5: planning and preparing lesson to include

-view lesson planning is critical activity for prepare Childress

High phase Templates described.

Key component : city power care training practice.

Explanation overhead or projector used keep.

-lesson plan: is a document that outlines the contents that your less step-by-step student teacher

Lesson plan is usually prepare in advance either cover one off , activity,entire lesson ,

Lesson St peace college unity in trade training

Day visited week visited.primary include activities

-lesson plan: board city power metering days care visited St Peace college module subject integrate Portfolio assessment

Activities.

Objective lessons goal feedback science lessons anything from, experimental to monitoring or to diagramed

Lesson plan run smoothly.

-provide reflection: in the lesson greater way.. Lesson metering system city power goal megawatt and city appliance compare lesson module plan at peace grater.

Break project down .module time table visited plant operations and break.sectiin checklist,

Learn number life student complex, activities all orthographic drawing quickly grade level (9-12).

Required 45 minutes subject area geometry problem solving share bottom shaped 3D objects copyright engineering are connected, activity view isometric,

Pre assessor drawing challenge..

Circular police assessment.

-management system information:

In St peace college and integrity police system saps and city power , technician indicator persal personal police employment system data base.polfin police

financiaire statement, training goal product humain resource and

Indicator number titles

-indicator building management implementation

Indicator criminals dismental lab ,

Career secret purpose involvement laboratories indicator laboratory indicator

training incident system support evidence report directors t implementation.... city

power indicator trading lab record keeping finger print training student and St

peace subject record clearence visited day working to report crime

togheter,,,,method research crime evaluation in time table script transcript

component fraudulent module appliance in city power and report over load

required.

\_29. Teacher vocational: guidance counseling interview verbal communication

career design in training city power and St Peace colege learn more career outcom

engineering electric subject nated exhibition engineering generation transmission

power station.electrician engineering to city power engineering career

Questionnaire design what is leading to pursue a career counseling have excellent

written and verbal communication skills approach counseling assistance stator

management attorney audiology ..what are the communication skills

communication,wath guidance counseling characteristics off effective guideline

counseling interview School may be focused on graduation and , career, balance career teaching that employee look for candidate, including college professional, Caractéristique Component Company engineering electrical: design generation transmission in training power metering design caractéristique level . Stability. And with the principal key power: load over load rating , switch, Company..

15. -29 required management trainee class and company training  
How to management and control during teaching  
-how to organize teacher filing cabinet training room trainer room libraries visit to .  
How to organize a lesson plan . Trading  
Material , library training and report form city power organization, implementation trainings and St Peace college textbook reader module trainee Description management and control a class during your teaching filing system form city power Eskom, compliance form issue filing day week evaluation and certified lemons instructions metering

Assessment functions

22.Requirement: implementation and stabilization to training visited trainee engineer, education..Anted examination training and labor inspection work inspection police inspection school ,compare industrial city power go inspection -general inspection category: and training schedule, Carrier training adducting modified I is additional training practical applications, -cycle of training application auditing , visited plant operations ,Step may take long or short time completed all operator must develop the ability to detect the ability detection abnormalities positive result achieve by student visited places working training system main tenant power city equipment in good condition and St peace good performance examination time table assessment, -autonomous inspection step 1,3 tentative inspection standards compared reevaluated to eliminate, detection and treatment of abnormal condition, Minor servicing of machines ,molds, gigs and tools .

\_29.1 Organisation tidness, autonomous maintenance.

Focused and elements:

- Operators responsibility organizing stand for operator responsibilities adhere to recording.kwh
- focus work and element promote organization and eagerly operation visual control work in control process product kWh / reader.
- measuring instrument and foil proof device, element inventory measure instrument proof device and make sure they functions properly inspection and correct deteriorate kWh metering city power training is work ,
- focus equipment precisions ,operators must check precisions of equipment kWh metering geyser is précis instrument,
- operation and treatment of abnormality,

16.

On Thu, 06 Apr 2023, 19:31 TSHINGOMBEBK TSHITADI,  
<[tshingombekb@gmail.com](mailto:tshingombekb@gmail.com)> wrote:

Requireded hearted meter energy breaking component  
.destruction.

Conductor.insulation.maneticfield .

kWh/ .joule input copper wire..component heater Peltier .break.explosion  
system, limited stability load . circuit breaker load heater Peltier  
thermocontrol....metering limited breaking ,

Air cooling system breaking linear systems circuit wire cold.component cold  
,,220v .6,6kv..Peltier heater load 220+20volt Peltier 240volt reactance  
heater system..

Operationel,

On Thu, 06 Apr 2023, 18:53 TSHINGOMBEBK TSHITADI,  
<[tshingombekb@gmail.com](mailto:tshingombekb@gmail.com)> wrote:

34. Required: labour training quality body assessment,driven machinery  
regularite safety 1993,acting in term code practice., director.

\_ content training city power and St peace practice assessment.quality body  
insured,duty authority and duty acreditation.saga and sasseta institut sets  
mseta seta labour skill development field of activities.

- training system record detention,time table subject learning reading

Lifting machinery .and machinery manufacturing management.

-codr description.

Counter balance lift true ,rated capacity of 3000kg reach lift truck..covoyer  
logistics lighting ...order .

Machine code compagny capacity .

Pre start check detection ,

Pre operationel test in control,total item uncheck theory ,penalties ,UN  
heked,Pre assessment X2= maximum,

Total Pre star and operationel, practical x time penalite item not specific ,penalite,body stack,fail stack correct position for travel close remove close down total operationel,time  
.insurance logistics.transpirt Riggin material construction supply...

On Thu, 06 Apr 2023, 18:42 TSHINGOMBEBKB TSHITADI,  
<[tshingombekb@gmail.com](mailto:tshingombekb@gmail.com)> wrote:

Drawings explanation: building compare St peace college knowledge design analysis investigation. aystem engineering and trade theory  
Designing system engineering electrical drawings,mechanical drawings, building drawing . orthopedagie . lesson.orthopedagogie.system module activity.. reproduction analyse design.

32. Required operationel Appliance customer to city power and more St peace college time table reception and attandance assessment engineering, direct energy conversion system. The direct PDC MHD conversion system s.

Plasma dynamic conversion system is a method of conversion system is a method of converting thermal energy plasma in to electric power without magnetho thermic .display energy bulb electro tube basic electrical energy government watt solar shs produce 03to0,4 kilowatt,

- insure generated energy

Lab segmento development.power of about 93kw, government RSA provide 50 watts solar home system rural bee20-30%renewablrs variation analyse method, input data ,

Input scenario energy demand yes supply option yes ,use interface ,messa database, reference energy ,tech ecodat parameters,messagematrix , emission,new installation, result storage data ,option for supply electricite rural homes area 0,4 to 0,5

- department of energy found total unle trificatie house rural unelectrifier, Total population  $0,31 \times 061 = < 5298$  millionxo,  $32 \times 0,62 = 1000$ , projection house hold bee

33.Thermoelectric effect ..generation product natural appliance vs metering effect energy.

Dc. Vs PWM supply type recommdation manufacture comparison of two technical control lin 25k ears vs system .

$I/\max$  when  $dt < 25$  .

$I \max$  should there 0,33,  $I/\max$  , $dt >$ ,  $I/ I\max$  should ,0,33-0,66  $I\max$  coefficient of performance, $CoP = QC/pel$

Performance vs current,

Thermal controller heating,

Linear vs SMP tech controller 12.A up to 2x16A.,

-33.1.Design process:

-Estimated heater loard system appliance and power total

\_define temperature.appliance and metering power system

-choosing a Peltier elements.

- heat sink

- calculate

- temperature sensors

-power supply requirements

- Thermo electrical cool

& Design a complete system estimate appliance geyser ,fridge and steamer system

-Thermo electrical material build .

Operational principle, construction design

material,

Designing

-identification geyser stwater heater

-characteristic, metering

ie

Benefits: function heater exchange, uses consumer production industrial , science.

-object yes , metal plate geyser, Peltier yes Q,heater sink yes Q.rth ambient,

Estimation load dynamic,dQ/St. Load QC transfer THS heat Tamb+ΔTSH

[K].dt=THS -To=Tamb+ΔTSH-To

-COP=QC/pel..Max.min Pelton

dI..IMAX=68k,lmax=5A,Vmax=1,5A, current and voltage,I=IMAX

(IMAX)=5Ax0,45=2,25,

V= pel/I = 16,7w/3,83{7,42

Heater sink elements we need knowledge, required heater rejected vs

current Qh/max=max=0,6..

Qh=Qmaxx0,61=41,.. ..

, Operational

34.requirement metering

Logic system Min Ter max term .

Control logic loop

Analyse function asservissement,radiotech radiostatie.

35requirement operational , information management system,,

communication skill admin telecommunication computer ATM air time

metering design transmission data system policy

Control source traffic function Arriva

-Policy map input voice class voice not gateway interface ethernet,

Service police input research priority yes,

-ip on existing

-inputline with

-policy output data ATM .



Class default date, use ,attack ,account,queen, delivery,dial session,  
 description, switch port access,describe routage, passerel.police regulatory  
 communication metering appliance vs metering city power communication  
 data systems ATM process framework regulatoryity.over load  
 transmission.dischage bill delivery, plan number control , government  
 implementation gov taxation government ..  
 Police detective microcontrol VDC, Di/DT, fault..  
 -- 33.2Required.analyse circuit system lineare limited Saturation vinput v  
 output.permanent network input output meseare,  $Q_{max}, e(t)=u(t).s(t)$   
 System lineare relay delay position circuit analyse metering heater guszer .  
 System aervomecanism position.plc  
 Mean... $e(t)=e(t)-r(t)=$   
 Input out put ..  
 $e(t)=E.\sin.to$   
 $S(t)=S.\sin (Wt+f)$

DC system transformer tension speed  
 $e(t)=v(t).s(t)=t.wt..command v(t)..$

Equation different linearity metering input system output system  
 appliance ..  
 $St (St).v(t).A.(t)=w+w..$   
 Database data send kWh rather system send kWh ether reception  
 transmission telecommunication..policy relay delay discount value  
 10@r,2,5kwh ..input 10kwh 10rand buy system 8 rand transformation  
 system asservissemnt.retard line power cash time arrival policy network..  
 system gov,

On Tue, 04 Apr 2023, 15:20 TSHINGOMBEBK TSHITADI,  
<[tshingombekb@gmail.com](mailto:tshingombekb@gmail.com)> wrote:  
St peace college Afric instituts police  
Practice work  
Reg : C0700401099  
Sars vat :9237228238  
Sasseta number: accreditation:111999691949  
CHIETA : national certificate in electrical engineering level2,3,4..  
Electrical infrastructure and building skills,electrical and building skills,  
electricak and control panel wiring,  
Merseta:17-QA/ACC/1311/17.mexhatronics level 3,3,air conditioning  
refrigerator vantilatiin fitter welding control instrument HVAC, hydraulic,,  
Nated n2,6,, mict ACC/2014/07/3188..  
Computer NQF level, info technology systems,computer  
I'd exam

Saga n diplomat;I'd 201911130002  
Learner faculty  
CHIETA.sutudent certificate number:COM182609001.  
ID:2100002023812.  
I'd:2004007064381.  
Admission permit and examination time table.engineering study.50110002..

External exam: I'd number instituts college

RegNo:2013/034490/07  
Dhet no:2019/FE07/028  
Dhet exam No:DDP1220/19/00130  
Merseta No:17-QA/ACc/1250/16

External exam: Afric trading  
Sasseta creeditation 112999691946..

Registration dhet:2019/FE07/014  
Merseta 17QR/ACC/1312/17.  
LP R/09/2017/07/0018.  
EW seta 2093-280525.

LGRS-2093-200525.  
Exam.899992880...

Subject.  
Full..